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Applicant #, Name MIKHAIL ZAYDMAN

Title: COMPACT OVEN

- Reissue Specification, Claims and Abstract: Nr. of Sheets 17
- Reissue Application Declaration by the Inventor: Date Signed: 12. 16. 1998
- Drawing(s): Nr of Sheets Enc: In Triplicat): Formal 15 Informal: -
- Copy of Patent # 5,599,471 4 February 1997 18 SHEETS
- Original Patent # 5,599,471 4 February 1997 18 SHEETS
- Check for \$ 450 for
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Very respectfully,

Ellyayl Mikhail Zayzman
Applicant #1 Signature

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Signed: Ellyayl Mikhail Zayzman
Inventor

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Signed: El Sayf Mikhail Zayzman
Inventor

COMPACT [SMOKING] OVEN

ABSTRACT

A compact [smoking] oven comprises a [box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of thoroughgoing openings; having at least one heating element for heating food products; a rotatable food product supporting means; and tray means located below rotatable food product supporting means so as to collect fat. For using oven as smoking embodiment, under tray means is placed a container for accommodating wooden chips [and] having at least one wall provided with a plurality of openings, a heating unit for the container so that when the container is heated and wooden chips inside the container are heated a smoke is produced which exits the container through the openings in the container, then enters a space inside the peripheral wall and exits the space through the opening of the inner wall portion into an interior of the housing, and [means for holder for] a food product to be smoked by the smoke.

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25 Claims, 15 Drawing Sheets

COMPACT [SMOKING] OVEN.

BACKGROUND OF THE INVENTION.

The present invention relates to a compact cooking and/or smoking oven. For using oven as smoking embodiment under tray for fat collection install container for accommodating wooden chips. Smoking ovens are known in the art. The known smoking ovens are formed as industrial installations which have great sizes, are provided with powerful and voluminous mechanism and parts for smoking a significant quantity of food product, and are very expensive. It is desirable to provide a compact smoking oven which can be used in small fast food groceries or households by individual users and which do not require special skills for cooking or smoking food products.

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SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide a compact cooking and/or smoking oven which can be used in households by an individual user or small fast food groceries, and does not require any special skills for cooking or smoking food products.

In keeping with these objects and with others which will become apparent thereafter, one feature of the present invention resides, briefly stated, in a compact [smoking] oven which has a[box-shaped] housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings, at least one heating element for cooking a food product; rotatable food product supporting means; a tray for fat collection.

For using oven as smoking embodiment under tray for fat collection is mounted a container for accommodating wooden chips and having at least one wall provided with a plurality of openings, means for heating the container so that when the container is heated and wooden chips inside the container are heated a smoke is produced which exits the container through the openings in the container, then enters a space inside the peripheral wall and exits the space though the openings of the inner wall portion into an interior of the housing, and [means for holder]a food product to be smoked by the smoke.

When the cooking and /or smoking oven is designed in accordance with a the present invention it is compact, has a simple construction, is easy to operate, and can be used in small fast food groceries or in households by an individual user who does not have any special skills for cooking or smoking. The novel features which are considered as characteristic for the invention are set forth in particular in the appended claims.

The invention itself, however, both as to its construction and its method of operation, together with additional objects and advantages thereof, will be best understood from the following description of specific embodiments when read in connection with the accompanying drawings.

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BRIEF DESCRIPTION OF THE DRAWINGS.

FIG. 1 is a front sectional view of a compact cooking and smoking oven in accordance with the present invention;

FIG. 2 is a sectioned side view of the cooking and smoking oven of FIG. 1;

FIG. 3 is a sectioned front view of the oven in accordance with another embodiment 5 of the present invention;

FIG. 4 is a perspective view of the cooking and smoking oven in accordance with a further embodiment of the present invention;

FIG. 5 is a view from below of an upper wall of a housing of the cooking and smoking oven of FIG. 4; 10

FIG. 6. is a perspective view of a cooking and smoking oven in accordance with still a further embodiment of the present invention;

FIG. 7 is a side view of the cooking and smoking oven of FIG. 6;

FIGS. 8A and 8B are section front view and a section side view of another embodiment of the cooking and smoking oven; 15

FIGS. 9 and 10 are a side view and a view from below of a flame distributing element with a metal plate of the cooking and smoking oven of FIG. 8;

FIGS. 11A- 11B are views showing a section side view and a section front view of a further embodiment of the inventive cooking and smoking oven;

FIGS. 12A- 12C are views showing a plan view of a cooking and smoking oven a horizontal rod for supporting food products, and an end view of the rod, and a motor used for turning the rod; 20

FIGS. 13A-13B are view showing a cooking and smoking oven with a plurality of rods mounted on two discs and with a [drill] grill, correspondingly;

FIGS. 14A-14C are views showing a food product supporting unit with discs and a plurality of [fronts] rods on a perspective view, a view of one of the food product supporting unit, and an end view of a fragment of one disc; 25

FIGS. 15A and15B show a flywheel separately from the rod;

FIG. 16 is a view showing a further modification of food product supporting means formed as a foldable unfoldable [grade] grate; 30

FIGS. 17A-17E are plan view, front view, a side view, a fragment of the plan view and a perspective view of a container for accommodating wood chips;

FIGS. 18A-18C are a plan view, a side view and a section [or] of a tray with a louver for food defrosting of the inventive cooking and smoking oven;

FIGS. 19-22B are views of the cooking and smoking oven, showing different embodiments of air flow for door sealing; 5

FIGS. 23 – 24 are section front view of the cooking embodiment oven with a grate.

DESCRIPTION OF THE PREFERRED EMBODIMENTS.

A cooking and smoking oven shown in FIGS. 1 and 2 has a housing with a peripheral wall 1, a top wall 2 and a bottom wall 3. The peripheral wall 1 is formed as a double wall and has an outer wall portion 1' and an inner wall portion 1" which is provided with a plurality of perforations 4. For using compact oven as smoking embodiment oven further has a container 5 for accommodating wooden chips. The container 5 has an upper wall 6 which is also provided with a plurality of perforations. The lower wall of the container [6] 5 is inserted into an inner space of a housing 8 of heating means. The heating means also include a heating element 9 formed for example as an electrical heating element connectable with a source of electric current (not shown). A lower grill 10 is located on a support 11 and in turn supports a tray for fat collection and for heat distribution, and a louver 13 for food defrosting is arranged on the tray 12. 10

The cooking and smoking oven further has a food product supporting means which is formed as a rotatable disc 14 provided with a plurality of hooks. The disc is connected with a shaft which is rotated by a motor 15 is accommodated in an upper control panel compartment 16 which is separated from the interior of the housing by the upper wall 2. Fans 17 are accommodated in the control panel compartment 16 and are rotatable by electric motors 18. 20

The interior of the housing is closeable and openable by a door 19 which has a double wall and an inner space 20 between two wall portions of the double wall and an exit opening 21. 25

The cooking and smoking oven in accordance with the present invention as shown in FIGS. 1 and 2 operates in the following manner:

A food product to be cooked or smoked is introduced into the interior of the housing and is suspended on the hooks of the rotatable support 14. For using oven as smoking embodiment, wood chips are introduced into the interior of the container 5 and the container is placed through the upper opening of the heater housing 8 so that the lower closed wall of the container 5 is located at a distance above the electrical heating element 9 of the heater. Electric current is supplied to the electrical heating element, the electrical heating element heats the air inside the heater housing 8, the heater air heats the bottom wall and the peripheral wall of the container 5, wooden chips inside of the container are heated and produce smoke which exits the container 5 through the openings 6. The smoke is deflected toward the openings of the inner wall portion of the peripheral wall of the housing into the inner space between the inner wall portion 1" and the outer wall portion 1', then the smoke passes through the openings 4 of the inner wall portion 1" and enters the interior of the housing so as to smoke the food product suspended on the support 14. At the same time, the fans 17 are rotated by the motors 18, cool the air and cause flow of air over the upper wall 2 of the housing so as to [heat] cool the upper wall and also into the interior space 20 or the double wall 19 so as to cool the double wall and to provide [gas] air tightness of the interior of the housing. Fat from the food product is collected in the tray.

In the embodiment of FIG.3. the food product supporting means include two discs 14' and 14" provided with a plurality of hooks and rotatable independently from one another.

In the embodiment of FIGS. 4 and 5, the food product supporting means include four discs 24 provided with a plurality of hooks and grouped so that two discs 24 are located in one compartment of the housing while two other discs 24 are located in another compartment of the housing separated from the first mentioned compartment by a partition 25. The housing has two doors 26 which provide access to a corresponding compartment.

In the embodiment shown in FIGS. 6 and 7, the food product supporting means include a plurality of rods 26 provided with hooks 27 and connected with a door 28. The container for wood chips 29, the heater 30 as well as the tray 31 are also connected with the door 28. After smoking the door is displaced outwardly of the housing, and the food product supporting means 26, 27 are also located outside of the housing so as to remove the cooked or smoked product and to put a new [smoked] food product on the hooks.

In the embodiment of FIGS. 8A-8B, a heater is formed as a gas heater 32, connected with a source of gas and having one outer opening at its right end in FIG. 4 or a plurality of openings distributed over the pipe 23. A heat accumulating element 34 in FIGS. 9-10 formed for example as a metal plate is located above the flame and separated from the latter by a flame distributing element 35 which is formed for example as a concave sheet provided with a plurality of perforations. The combination of the elements 34, 35 provides for a uniform distribution of the heat into the interior of the oven [to the container 5 which accommodates the wooden chips.] 5

In the embodiment of FIG[S]. 11A, the food product supporting means in addition to the rotatable disc 14 provided with a plurality of hooks also has a plurality of supports 22 for inserting horizontal rods 36, which is used for inserting a grates 45. 10

In the embodiment of FIG. 11B, the food product supporting means include a plurality of grate 45 rotatable by rod 36 between a supports 22 and 37.

As can be seen from FIGS. 12A-12C, the rod 36[A]can be tuned around its axis by a motor[37] 15 and support 37,which has a slot with a hole, and support 22. 15

In the embodiment shown in FIGS. 13A-13B the food product supporting means include two discs 41 and 42 which [are] is fixedly connected with the axial rod rotatable by not shown electric motors and a plurality of rods [43] 56 mounted on the discs spaced from one another in a circumferential direction. As can be seen from FIG. 14A-14C, one end of each rod is inserted through the slot of the disc 41 and locked there by turntable flap57, while the other end of the same rod 56 extended through a corresponding opening in the disc 42. 20

As can be seen from FIGS. 15A- 15B, each rod is provided with a flywheel 44 which is fixedly connected with the respective rod 43, while the rods 43 are [turnably] turntable mounted in the slots and openings of the discs 41 and 42. When the discs are rotated about their joint axes, the rods 43 are rotated about these axes as well. At the same time, since the flywheel 44 tends to retain its vertical position, it turns each rod 43 with which it is connected around its own axis. Thus, during rotation of the discs, the food product on the rods gradually turns so that each portion of the food product is uniformly heated. 25

In the embodiment of FIG. 16. the food product supporting means include a grill 45 composed of two grill portions 46 and 47 pivotally connected with one another by a pivot 30

axle 48. The grill portions 46 and 47 can be opened so as to insert a food product, and then closed so as to enclose the food product in their interior, and then locked by locking means 49 in the closed position.

FIGS. 17A-17E illustrates a container 5 for accommodating wooden chips, as can be seen, the container 5 has an upper wall 50 provided with a plurality of openings 51, a peripheral wall 52 provided with a holding flange 53, and a lower wall 54. The holding flange 53 is provided with means 55 for connecting the container with the housing of the heater located underneath the container, for example, formed as threaded openings for screws and the like. 5

FIGS. 18A-18C are different plan views, side views and section of the tray for fat collection. 10

[FIGS. 11A- 11C are a plan view, a side view and a section of a tray 12 with a louver 13 for food defrosting of the compact smoking oven.]

[In all embodiments, the housing 1, the compartment 16, the container 5, the door 28, the unit 10-12 are designed as in the embodiment of FIGS. 1-2.] 15

FIGS. 19-21 show front views and FIGS. 22A and 22B show perspective views of the inventive cooking and smoking [over] oven with different directions of air flow to provide sealing of the oven door.

FIG. 23 show front section of the compact oven, cooking embodiment, which has the food product supporting means include a grate 45 rotatable by motor 15 between the support 22 and the support 37 displaceable in an axial direction for removal food product supporting means 45. 20

FIG. 24 show front section of the compact oven, cooking embodiment, which has the food product supporting means include a grate 45 rotatable by motor 15 between the support 22 and support 7 with slot for inserting one end of said rod 36 and food product supporting means displaceable in an up direction for removal of the food product. 25

It will be understood that each of the elements described above, or two or more together, may also find a useful application in other types of constructions differing from the types of constructions differing from the types described above. While the invention has been illustrated and described as embodied in a compact [smoking]oven, it is not intended 30

to be limited to the details shown, since various modifications and structural changes may be made without departing in any way from the present invention.

Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can, by applying current knowledge, readily adapt it for various applications without omitting features that, from the standpoint of prior art fairly constitute essential characteristics of the generic or specific aspects of this invention. 5

What is claimed as new and desired to be protected by Letters Patent is set forth in the appended claims:

1. A compact [smoking] oven, comprising a [box- shaped] housing having a peripheral wall comprising of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; and at least one heating means for heating food products; a food product supporting means; and means for holding a food product supporting means; and tray means located below said food product supporting means so as to collect fat; [a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke; said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space though said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke; and means for cooling said housing, said housing having an upper compartment separated from an interior of said housing by an upper wall, said cooling means being located in said upper compartment and directing cool air toward said upper wall so as to cool said upper wall.] 10 15 20 25

15. A compact oven as defined in claim 1, and a container for accommodating wooden chips and having at least one wall provided with a plurality of opening; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space though said opening of said inner wall portion into an interior of said inner wall portion of said peripheral wall; 30

2. A compact [smoking] oven as defined in claim 1, wherein said heating means include a heater located underneath said container with wooden chips so as to heat a bottom of said container and thereby to heat the wooden chips.

3. A compact [smoking] oven as defined in claim 2, wherein said heater is formed as an electric heater. 5

4. A compact [smoking] oven as defined in claim 1; and further comprising a food product supporting means; and tray means has bottom inclined toward the door of said oven, which located above said container and below said food product supporting means so as to collect fat and deflect smoke exiting said openings of said container toward said peripheral wall. 10

16. A compact oven as defined in claim 1; and means for cooling said housing, said housing having [an upper] a control panel compartment separated from an interior of said housing by [an upper wall] a wall, said cooling means being located in said [upper] control panel compartment and directing cool air toward said [upper wall] control panel so as to cool said [upper wall]compartment and control panel. 15

5. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of thoroughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening; means for heating said container so that when said container is heated, wooden chips inside container are heated to produce a smoke, said smoke enter a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall;] and food product supporting means including at least two discs has a plurality of thoroughgoing openings rotatable about a horizontal axis and a plurality of rods extending substantially horizontally and inserted in openings of said discs, and at least one disc displaceable in axial direction for removal of the food product; and one end of said food product supporting means inserting into a slot with a hole or a hole of said support rotatable about horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot of other support; and the food product 20
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supporting means displaceable in an axial or in an up direction for removal of the food product supporting means.

6. A compact [smoking] oven as defined in claim 5 , wherein one of said disc has a plurality of throughgoing openings for inserting one end of said rods, while the other of said disc has a plurality of closeable and openable slots, or a plurality of the slots and throughgoing openings , for inserting the other end of said rods. 5

7.A compact [smoking] oven as defined in claim 5 , wherein said rods are additionally turnable about their axis; and further comprising means for additionally turning said rods about said axes.

8. A compact [smoking] oven, as defined in claim 7, wherein said means for turning said rods about their axes including at least one flywheel connected with each rod and formed so that when said discs rotate and rotate all said rods, each of said rods is rotated about its axis in an opposite direction under the action of said flywheel tending to assume a substantially vertical position. 10

9. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke; said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] an openable hollow door which closes and opens the interior of said housing; and cooling means for cooling air and supplying it into an interior of said hollow door so as to cool said door and to increase tightness of an interior of said housing, between said door and housing so as to prevent smoke escape from said housing. 15 20 25

10. A compact [smoking] oven, as defined in claim1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and 30

including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] and food product supporting means located in said housing and including at least one support provided with at least two rotatable discs having different axes of rotation and at least one 10
rotatable disc having a plurality of hooks for suspending the food product.

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11. A compact [smoking] oven, as defined in claim 1;[comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means 15
for holding a food product to be smoked by said smoke;] and said heating means including a gas heater; a metal plate heater by said gas heater and located above said gas heater [and underneath said container] and a flame distributor located between said gas heater and metal plate and having a plurality of perforations so as to distribute and direct gas flame to said metal plate in a distributed fashion.

12. A compact [smoking] oven, as defined in claim 1;[comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with]

[a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] and food product supporting means including at least one rod rotatable about a horizontal axis and having a support displaceable in an axial direction for removal of the food product; and one end of said food product supporting means inserting into a slot with a hole or a hole of said support
rotatable about a horizontal axis, while the other end of said food product supporting
means inserting into a slot with a hole or a slot of other support; and food product
supporting means displaceable in an axial or in an up direction for removal of the food
product supporting means.

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13. A compact [smoking] oven, as defined in claim 1;[comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] and food product supporting means including a grate composed of at least two portions movable between a position in which said grates are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved, two discs rotatable about a horizontal axis with [on] at least one of said disc[s] displaceable in an axial direction for removal of the grate; and a turnable at least one rod located between said rotatable discs and supporting said grate; and one end of said food
product supporting means inserting into a slot with a hole or a hole of said rotatable

about horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot of other support; and food product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means.

14. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] a door adapted to close and to open said housing; and food product supporting means and tray means for fat collection connected with said door so that when said door opens, said food product supporting means and tray means are located outside of said housing for loading and unloading said food product supporting means.

17. A compact oven, as defined in claim 1; a food product supporting means including a grate composed of at least two portions movable between a position in which said grates are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved, [two discs rotatable about a horizontal axis with on said discs displaceable in an axial direction;] and at least one a turnable about a horizontal axis rod, located between [said rotatable discs] portions a grate and supporting said grate; and one end of said food product supporting means inserting into slot with hole or hole support rotatable about a horizontal axis, while the other end of said food product supporting means inserting into slot with hole or slot of the other support; and food

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product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means.

18. A compact oven, comprising a housing having a peripheral and inner walls; at least one heating means for heating a food product; and food product supporting means including a grate composed of at least two portions movable between a position in which said grates are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved; [two discs rotatable about a horizontal axis with on said discs displaceable in an axial direction] and at least one turnable rod located between [said rotatable discs] said portions a grate and supporting said grate; and one end of said food product supporting means inserting into a slot with a hole or a hole of said support rotatable about a horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot other support; and food product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means; and tray means located below said rotatable food product supporting means so as to collect fat.

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19. A compact oven, comprising a housing having a peripheral and inner walls; at least one heating means for heating a food product; and food product supporting means including at least one rod rotatable about a horizontal axis and having a support displaceable in an axial direction for removal of the food product; and one end of said food product supporting means inserting into a slot with a hole or a hole support rotatable about a horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot of said support; and food product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means; and tray means located below said rotatable food product supporting means so as to collect fat.

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20. A compact oven, comprising a housing having a peripheral and inner walls; at least one heating means for heating a food product; and food product supporting

means including at least two discs has a plurality of throughgoing openings
rotatable about a horizontal axis and a plurality of rods extending substantially
horizontally and inserted in openings of said discs, and at least one disc displaceable
in axial direction for removal of the food product; and one end of said food product
supporting means inserting into a slot with a hole or a hole of said support rotatable
about a horizontal axis, while the other end of said food product supporting means
inserting into a slot with a hole or a slot of other support; and the food product
supporting means displaceable in an axial or in an up direction for removal of the
food product supporting means; and tray means located below said rotatable food
product supporting means so as to collect fat. 10

21. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and food product supporting
means including at least two discs rotatable about a horizontal axis and at least one
of said disc has a plurality of throughgoing openings for inserting one end of said
rods, while the other of said disc has a plurality of closeable and openable slots, or
a plurality slots and throughgoing openings, for inserting the other end of said rods;
and one end of said food product supporting means inserting into a slot with a hole
or a hole of said support rotatable about a horizontal axis, while the other end of said
food product supporting means inserting into a slot with a hole or a slot of other
support; and the food product supporting means displaceable in an axial or in an up
direction for removal of the food product supporting means; and tray means located
below said rotatable food product supporting means so as to collect fat. 20

22. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and food product supporting
means including a grate composed of at least two portions movable between a
position in which said grates are located close to one another so as to enclose a food
product therebetween, and an open position in which said grate portions are moved,
two discs rotatable about a horizontal axis with on of said discs; and at least one
turnable rod located between said rotatable discs and supporting said grate; and at
least one disc displaceable in an axial direction for removal of the grate; and one end 30

of said food product supporting means inserting into a slot with a hole or a hole of
said support rotatable about a horizontal axis, while the other end of said food
product supporting means inserting into a slot with a hole or a slot of other support;
and the food product supporting means displaceable in an axial or in an up direction
for removal of the food product supporting means; and tray means located below said
rotatable food product supporting means so as to collect fat.

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23. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and food product supporting
means located in said housing and including at least one support provided with at
least[two rotatable discs having different axes of rotation and] one rotatable disc
with a plurality of hooks for suspending the food product; and tray means located
below said rotatable food product supporting means so as to collect fat.

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24. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and further comprising a
food product supporting means; a device for turning and holding a food product
supporting means; a tray for fat collection; and a door adapted to close and to open
said housing ; and food product supporting means and a tray for fat collection
connected with said door so that when said door opens, said food product supporting
means and a tray for fat collection are located outside of said housing for loading and
unloading said food product supporting means.

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25. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and further comprising a food
product supporting means; a device for turning and holding a food product supporting
means; and tray for fat collection has bottom inclined toward the door the oven, which
located below said food product supporting means so also to collect fat.

25

ellay milchail Zaydman 12. 16. 1998.

Docket Number (Optional)

REISSUE APPLICATION DECLARATION BY THE INVENTOR

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed in patent number 5,599,471, granted Feb 4, 1997, and for which a reissue patent is sought on the invention entitled _____,

the specification of which

is attached hereto.

was filed on _____ as reissue application number ___ / _____
and was amended on _____
(If applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

- by reason of a defective specification or drawing.
- by reason of the patentee claiming more or less than he had the right to claim in the patent.
- by reason of other errors.

At least one error upon which reissue is based is described as follows:

IN THE PATENT # 5,599,471 4 FEB. 1997, THE COMPACT SMOKING OVEN DISCRIBED ONLY AS SMOKING EMBODIMENT. HOWEVER WITHOUT WOODEN CHIPS AND SMOKE THE OVEN WORKS AS A COOKING EMBODIMENT ONLY. THEREFORE A COMPACT SMOKING OVEN WITHOUT CHANGING CONSTRUCTION MAY WORK AS A COOKING EMBODIMENT.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.5 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Name(s)

Registration Number

Correspondence Address: Direct all communications about the application to:

 Customer Number

Place Customer Number Bar
Code Label here

OR

Type Customer Number here

<input type="checkbox"/> Firm or Individual Name	MIKHAIL ZAYDMAN		
Address	3029 BRIGHTON 12 STREET APT C7		
Address			
City	BROOKLYN	State	NY ZIP 11235
Country	USA		
Telephone	(718) 891-1745	Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of sole or first inventor (given name, family name)

MIKHAIL ZAYDMAH

Inventor's signature

Residence

3029 BRIGHTON 12 ST. apt C7

Date

12.16.1998

Post Office Address

BROOKLYN NY 11235

Citizenship

UKRAINE

REFUGEE

Full name of second joint inventor (given name, family name)

Inventor's signature

Date

Residence

Citizenship

Post Office Address

Full name of third joint inventor (given name, family name)

Inventor's signature

Date

Residence

Citizenship

Post Office Address

 Additional joint inventors are named on separately numbered sheets attached hereto.

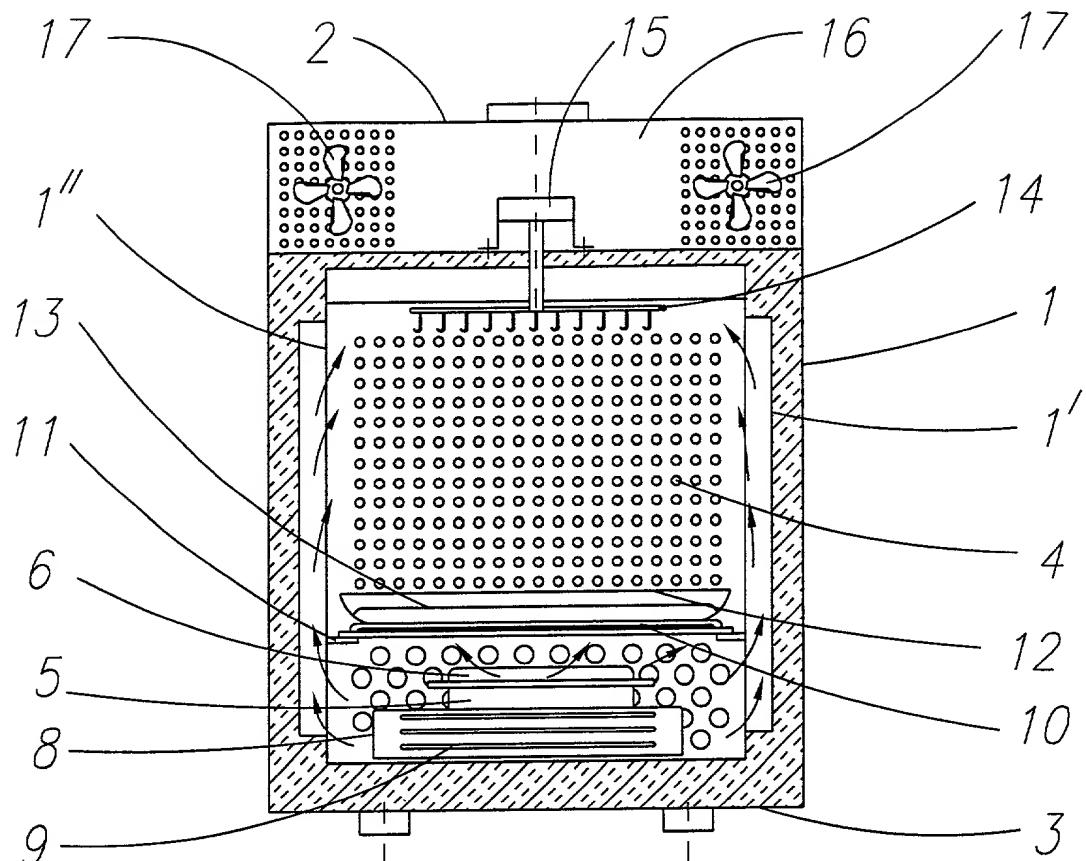


FIG. 1

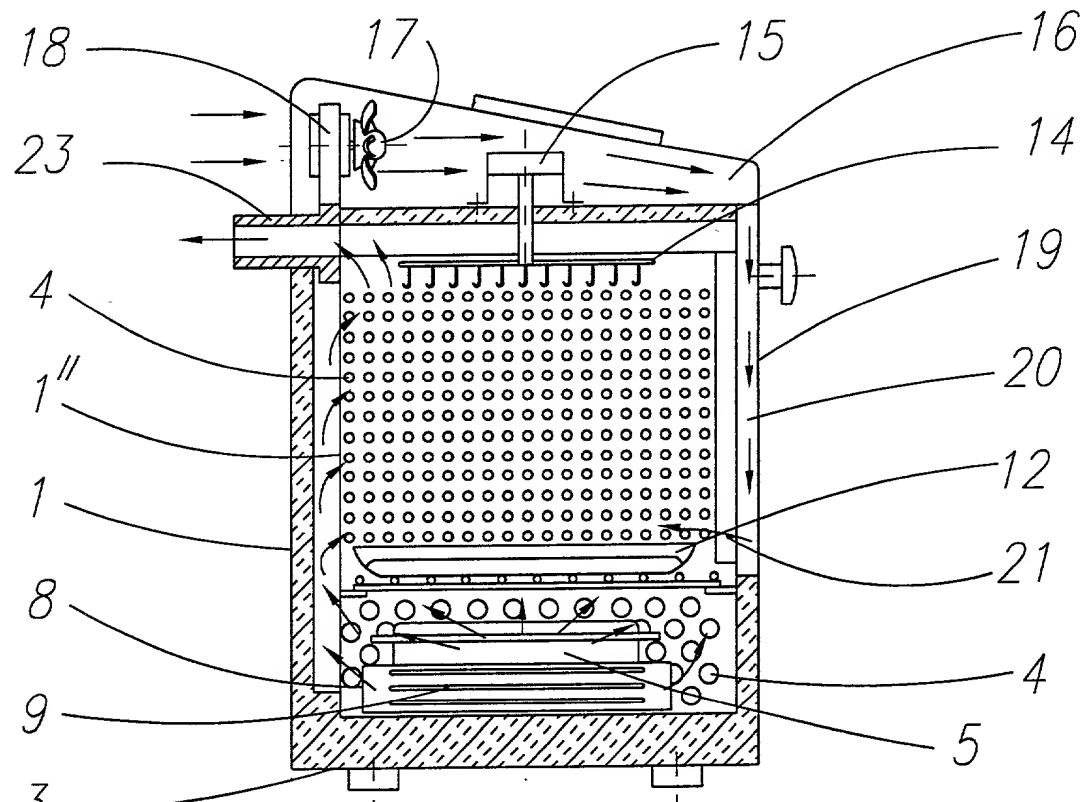


FIG.2

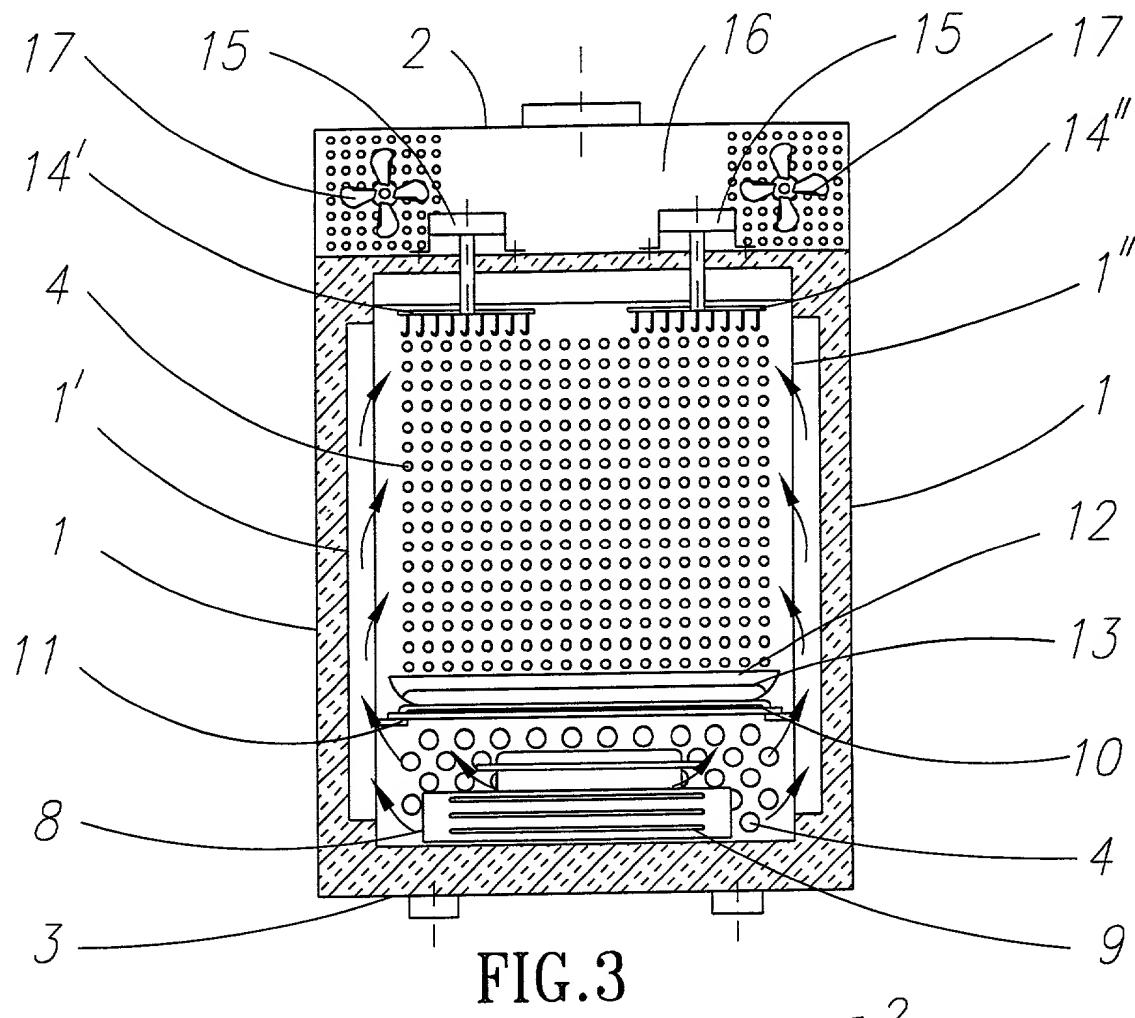


FIG.3

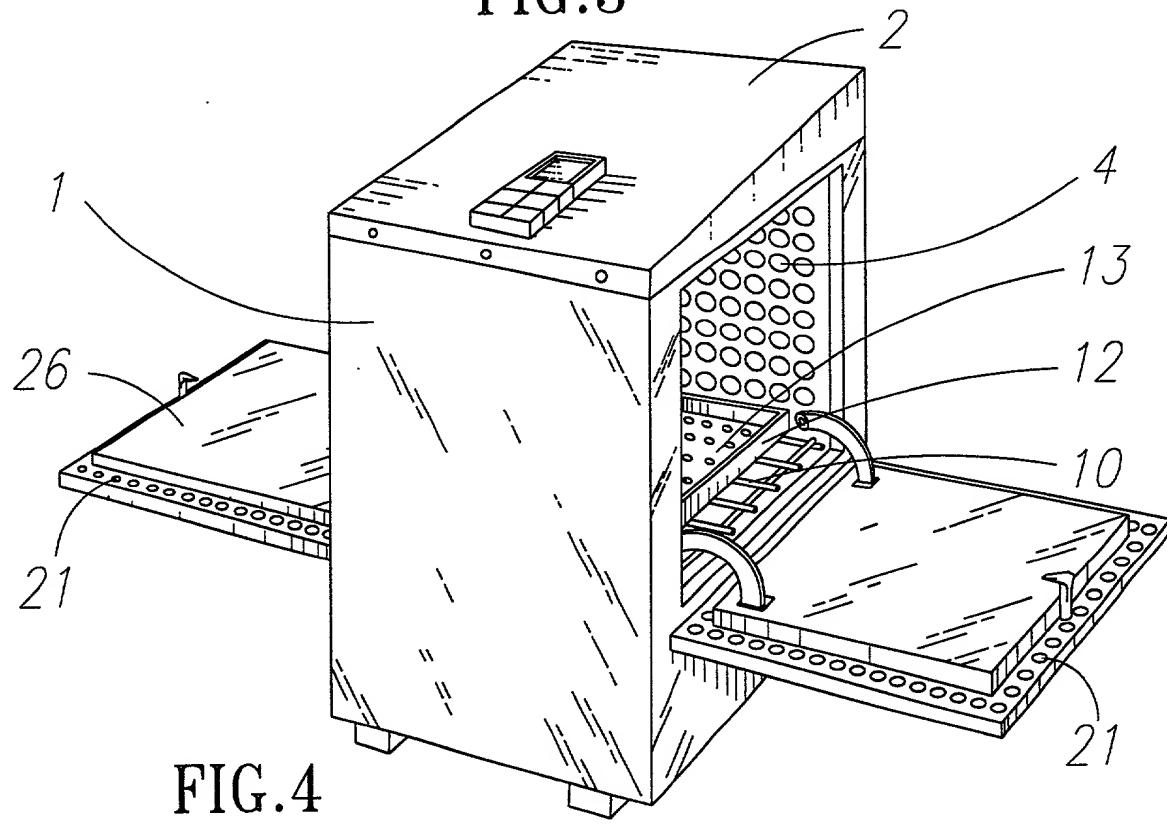


FIG.4

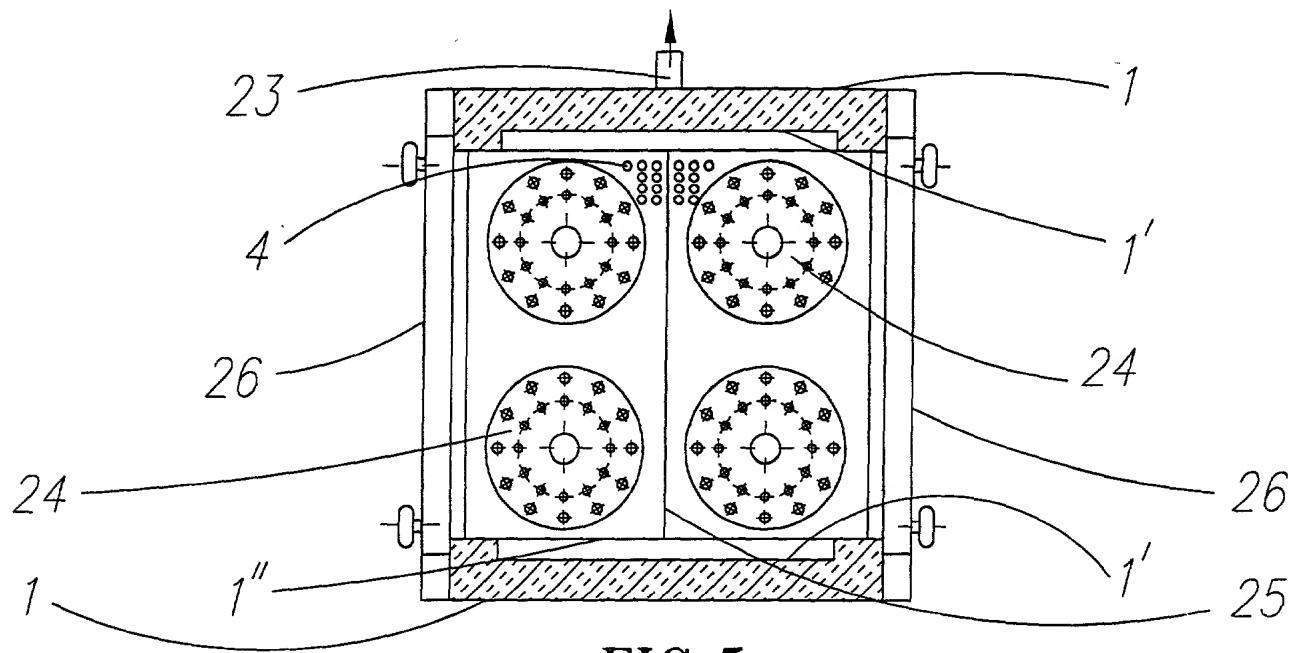


FIG.5

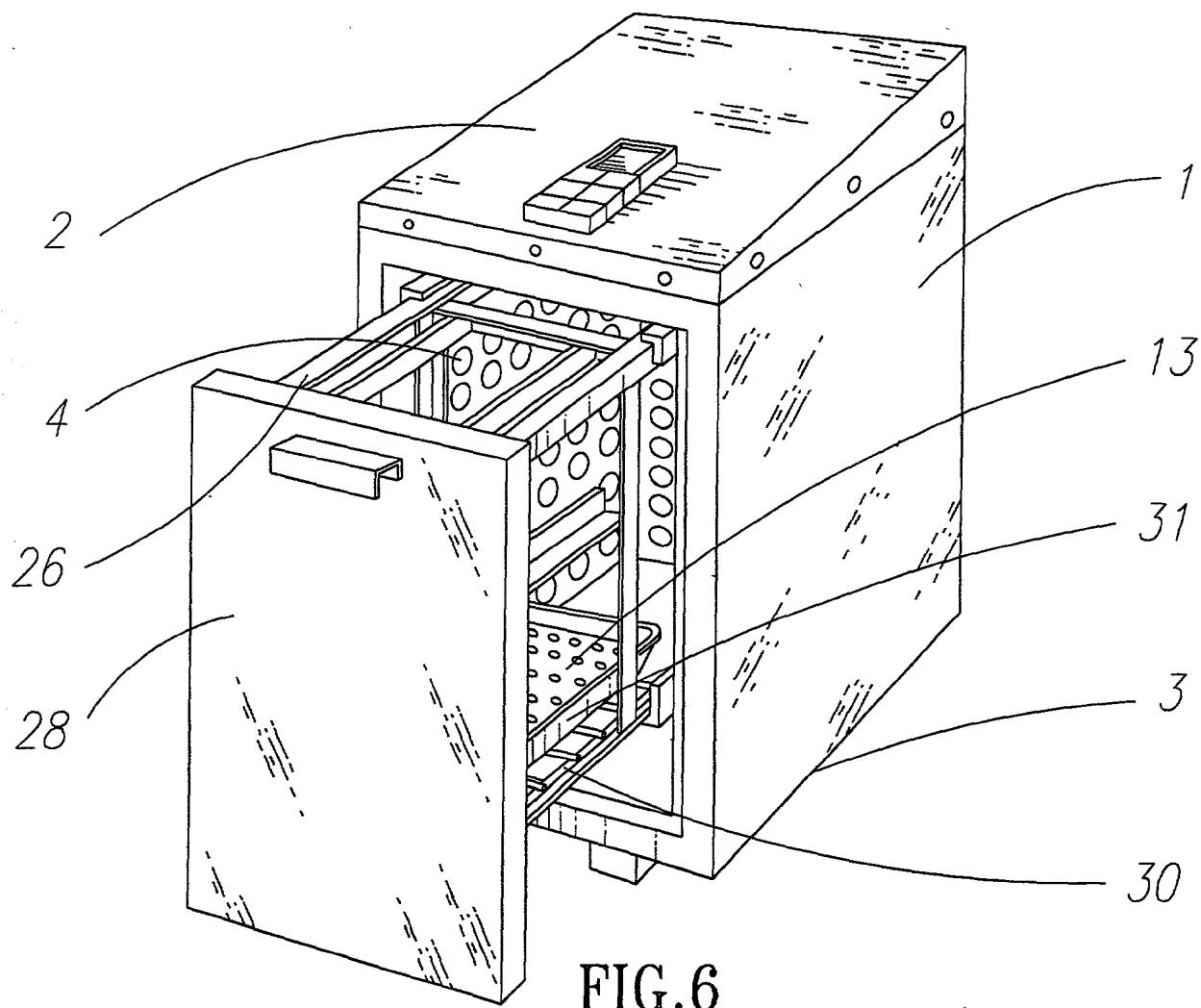
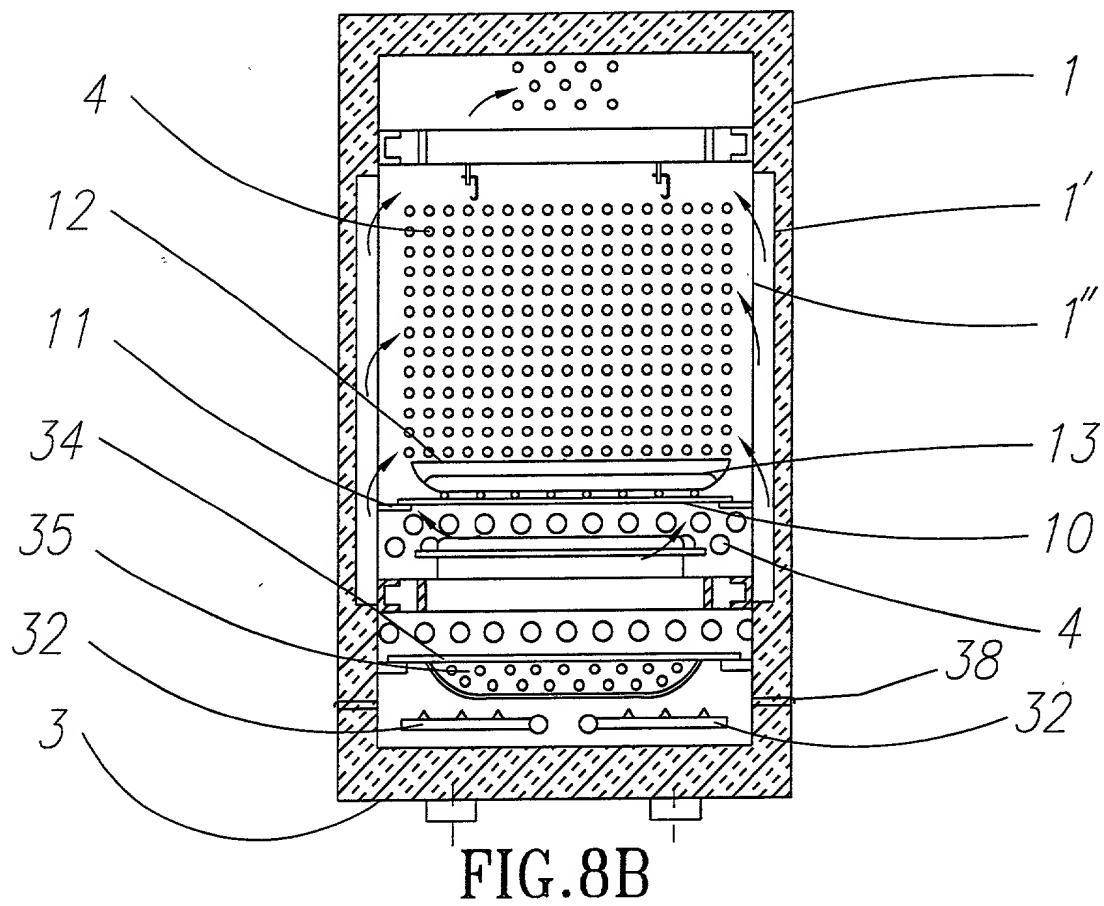
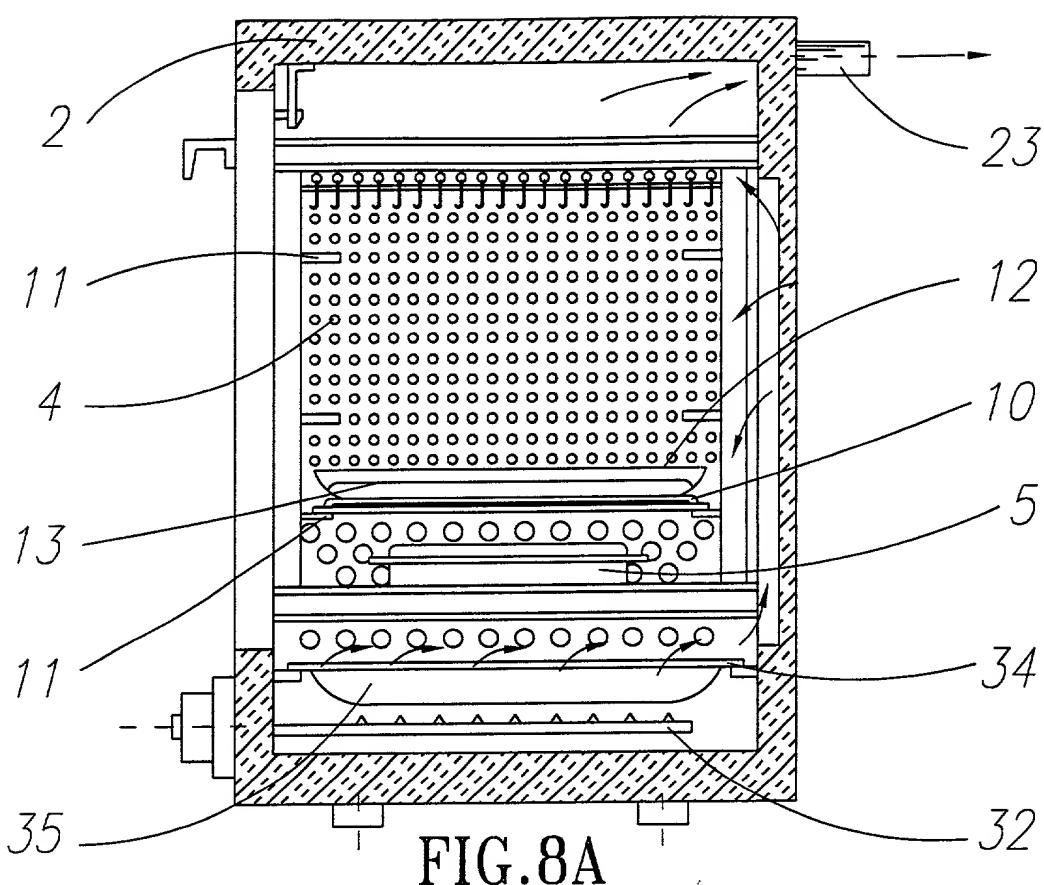


FIG.6



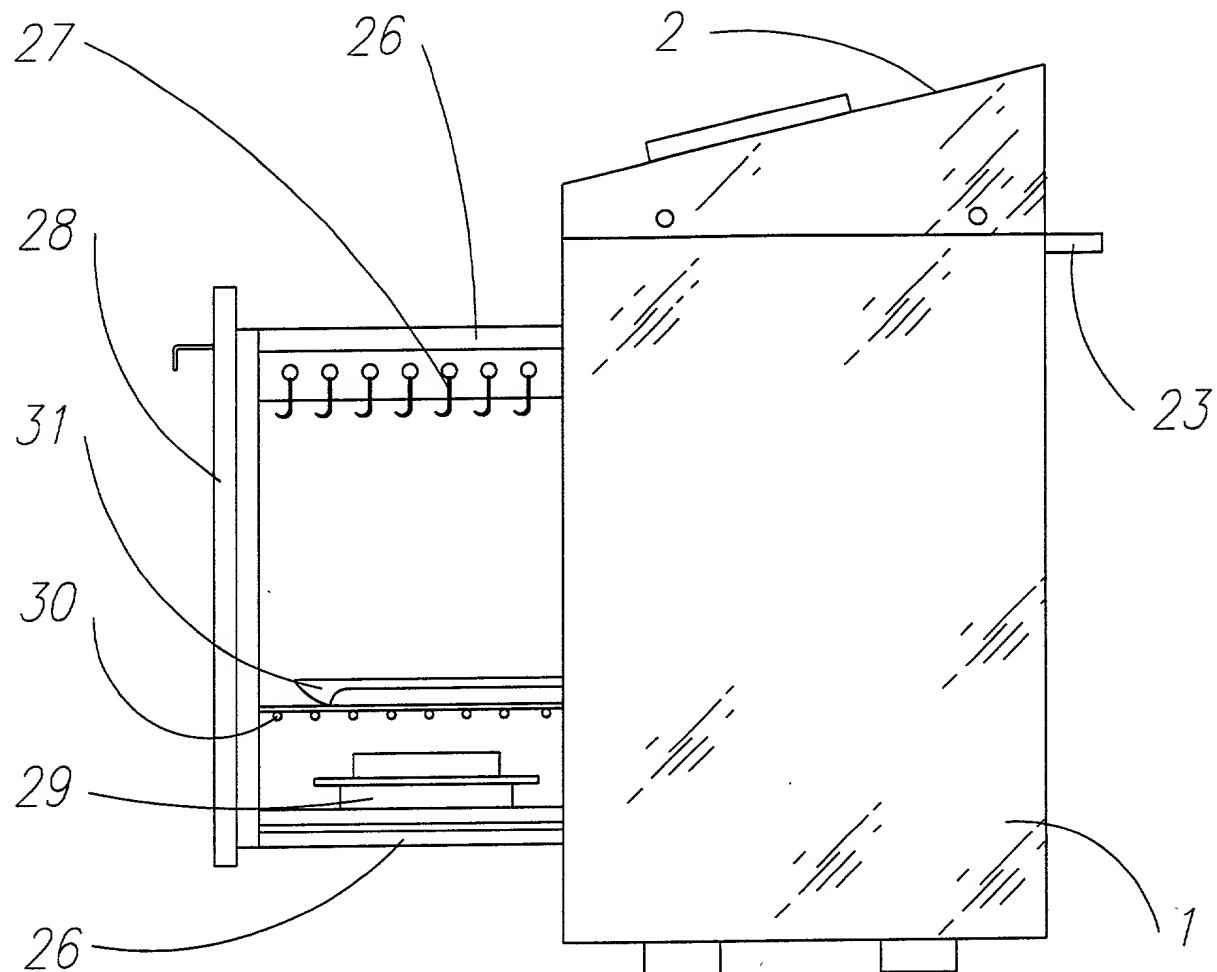


FIG. 7

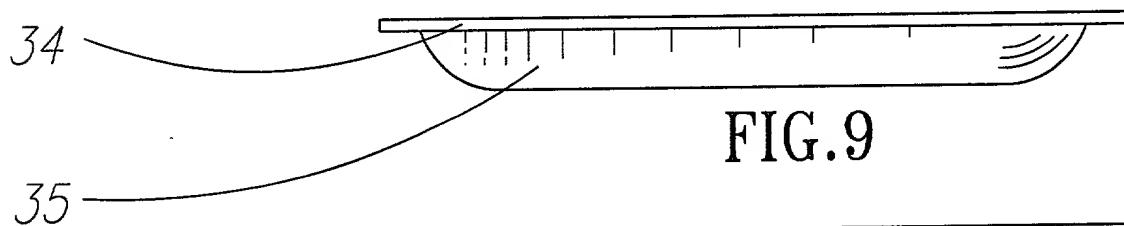


FIG. 9

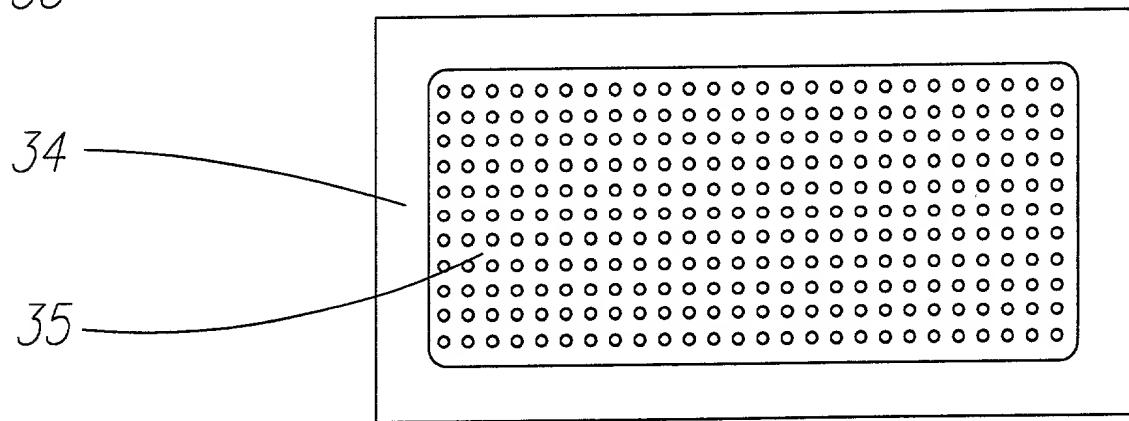


FIG. 10

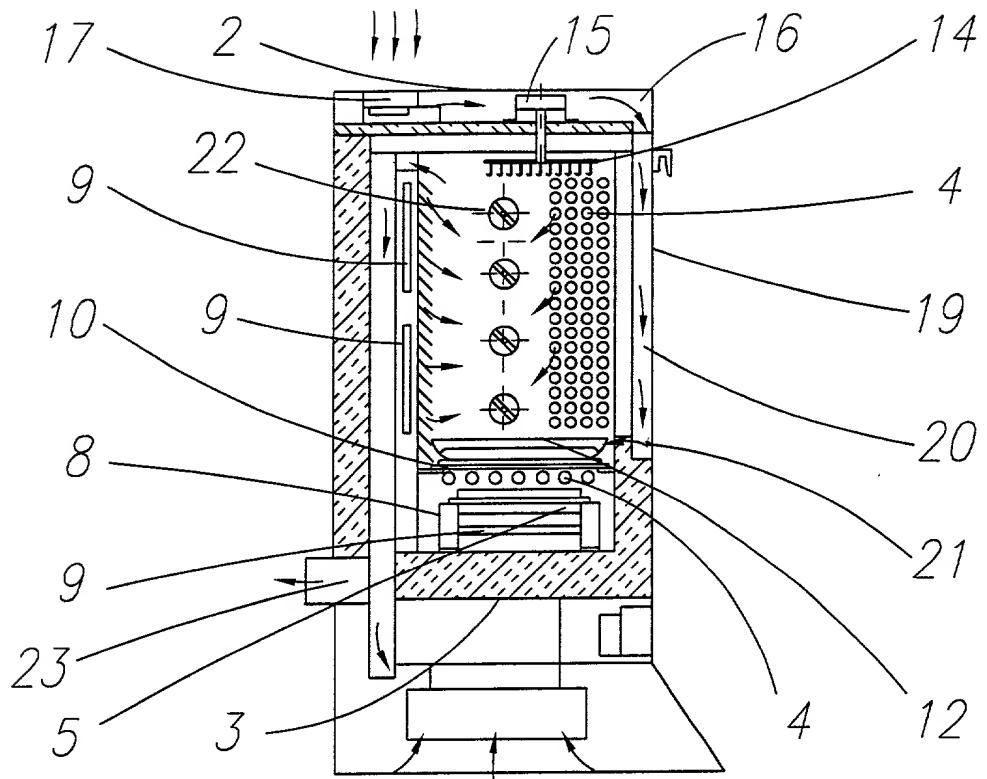


FIG.11A

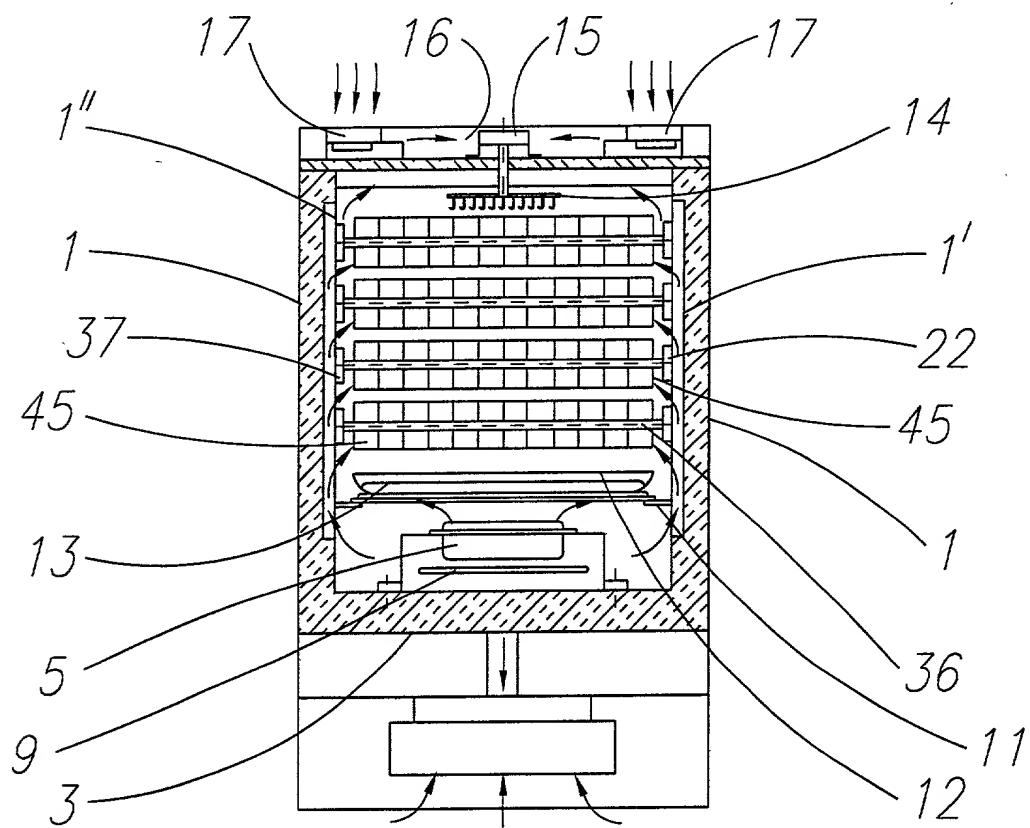


FIG.11B

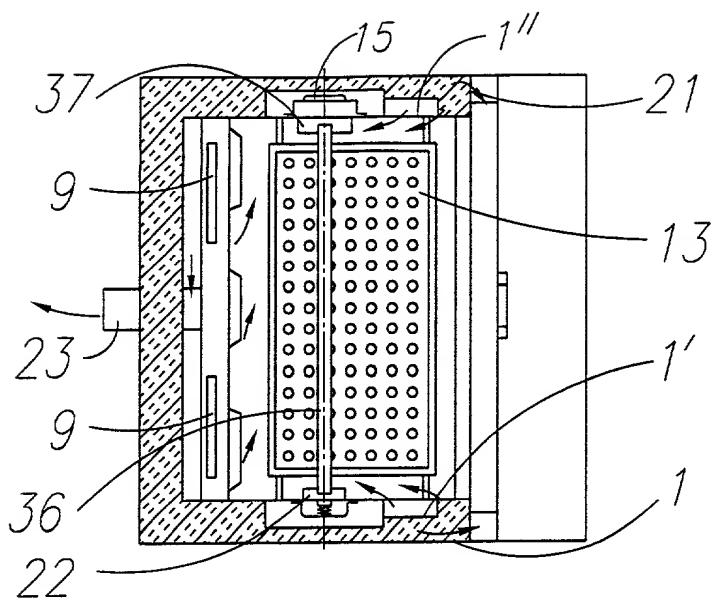


FIG.12A

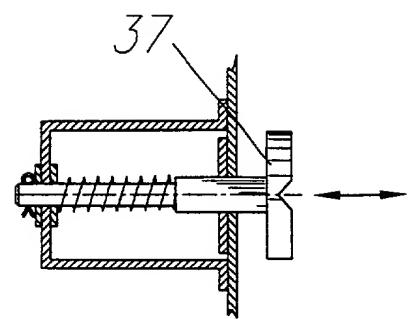


FIG.12B

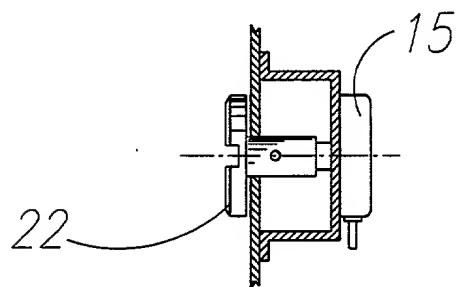


FIG.12C

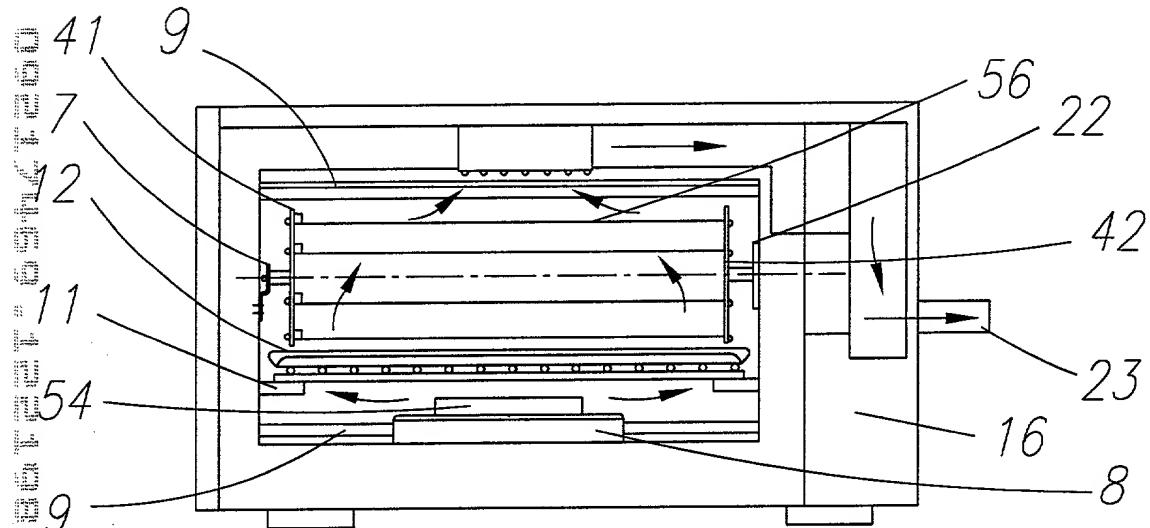


FIG.13A

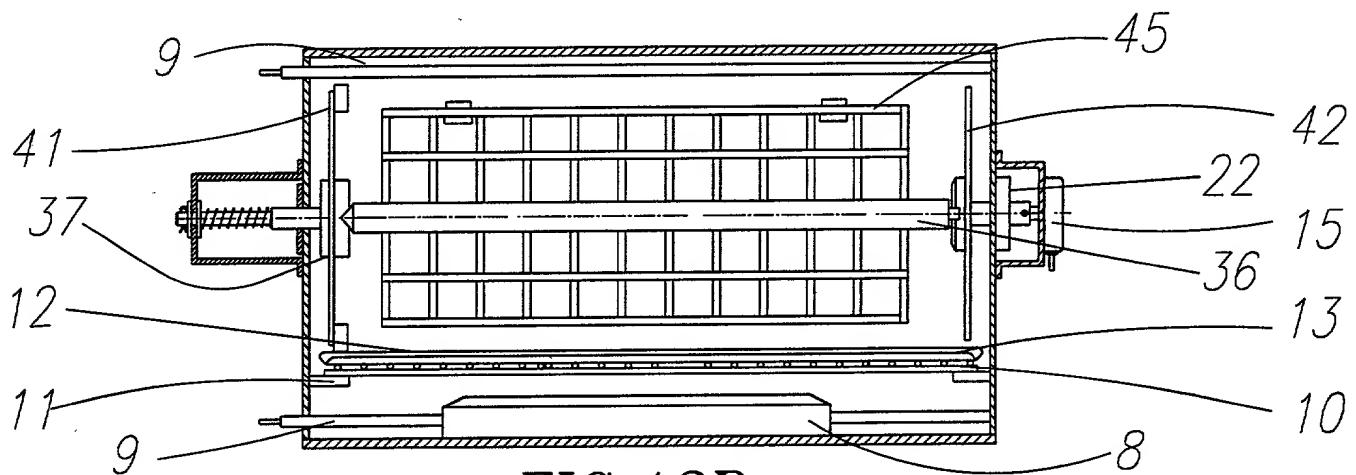


FIG.13B

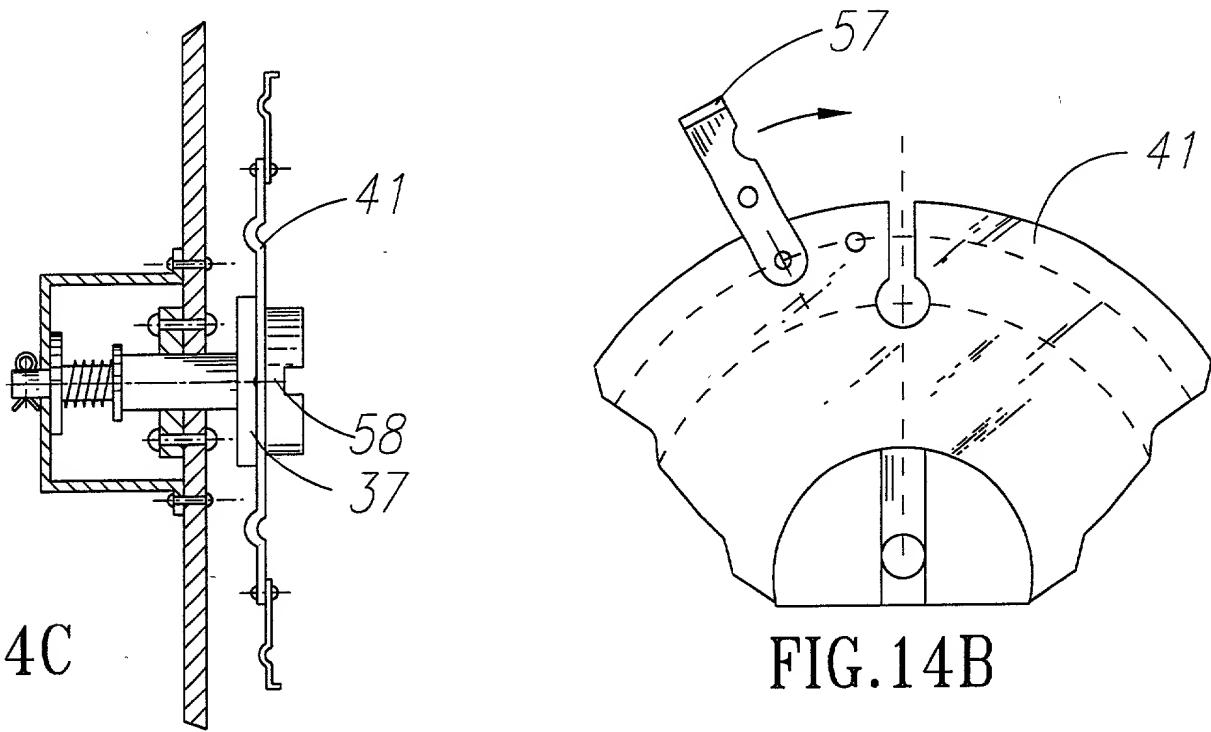
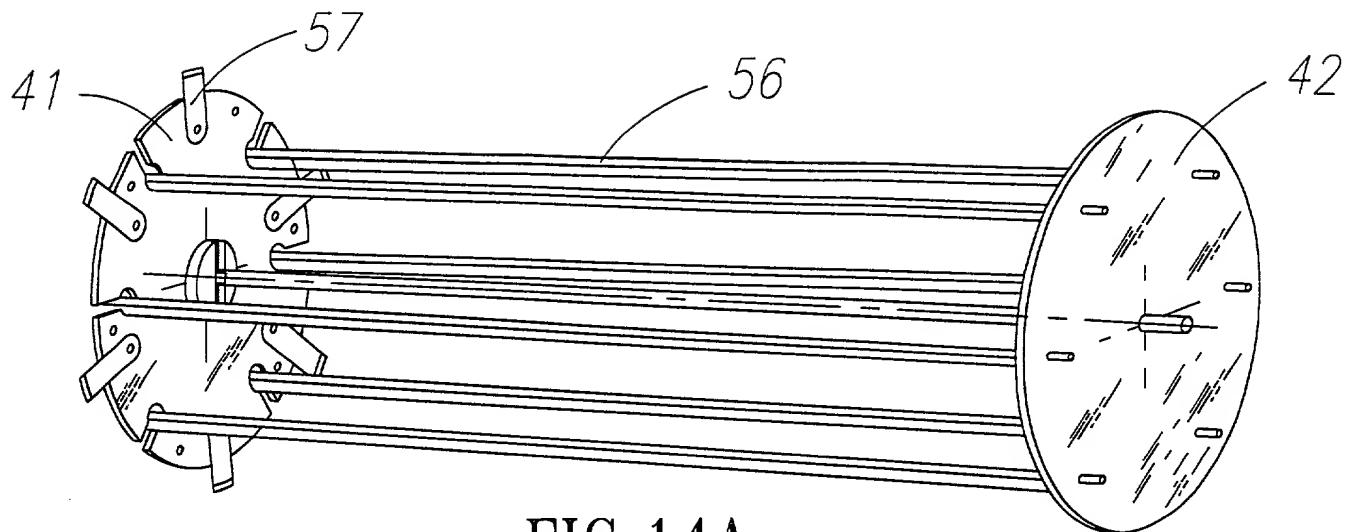


FIG.14C

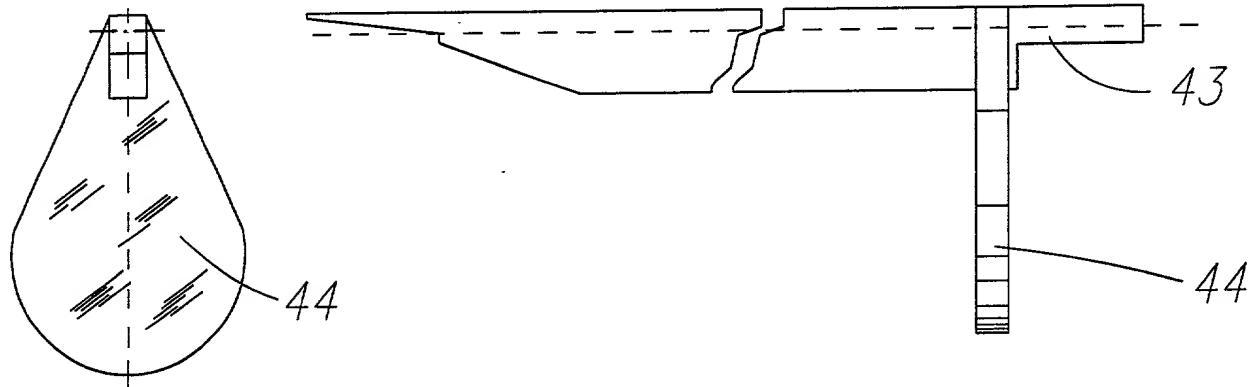


FIG.15A

FIG.15B

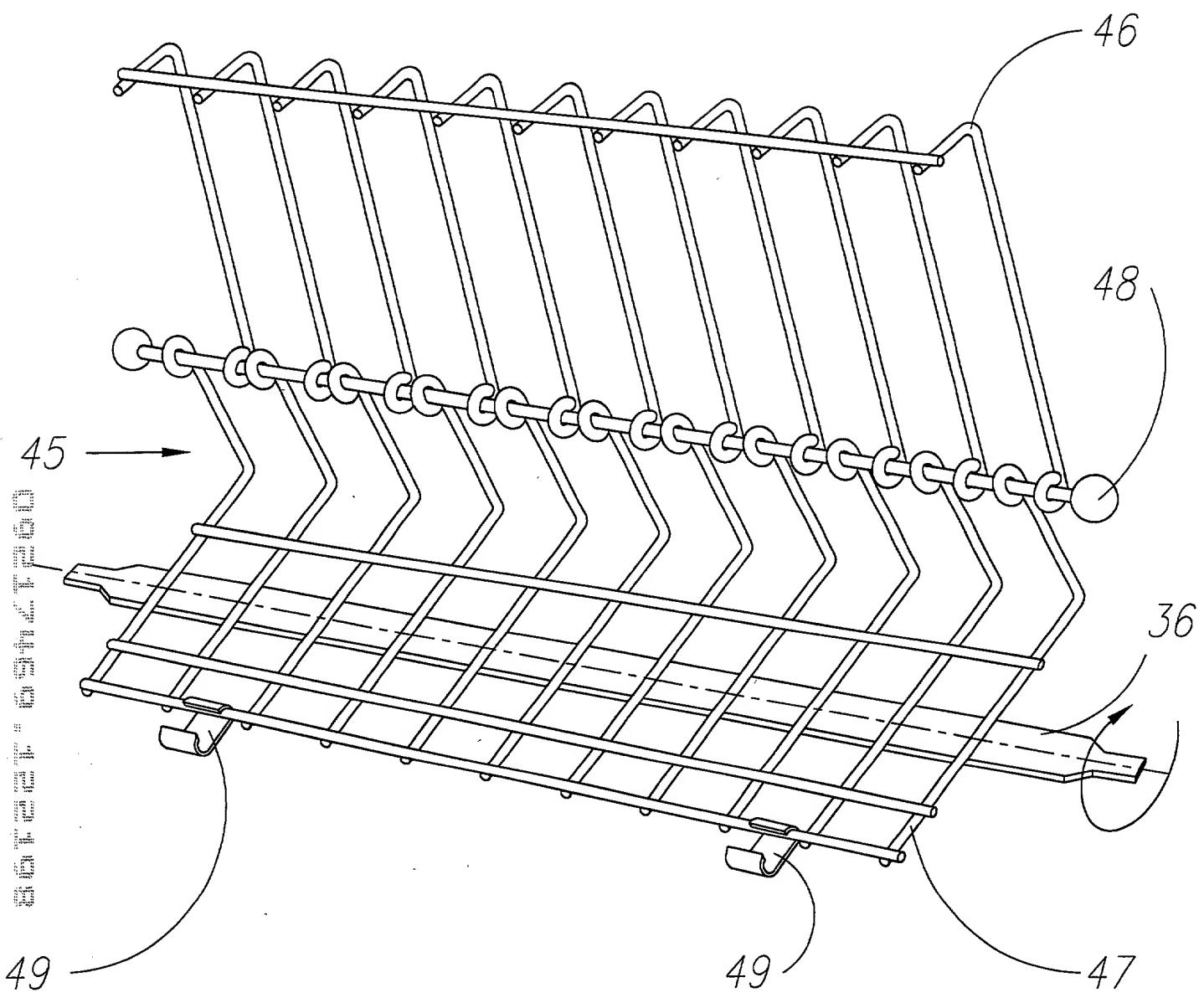


FIG.16

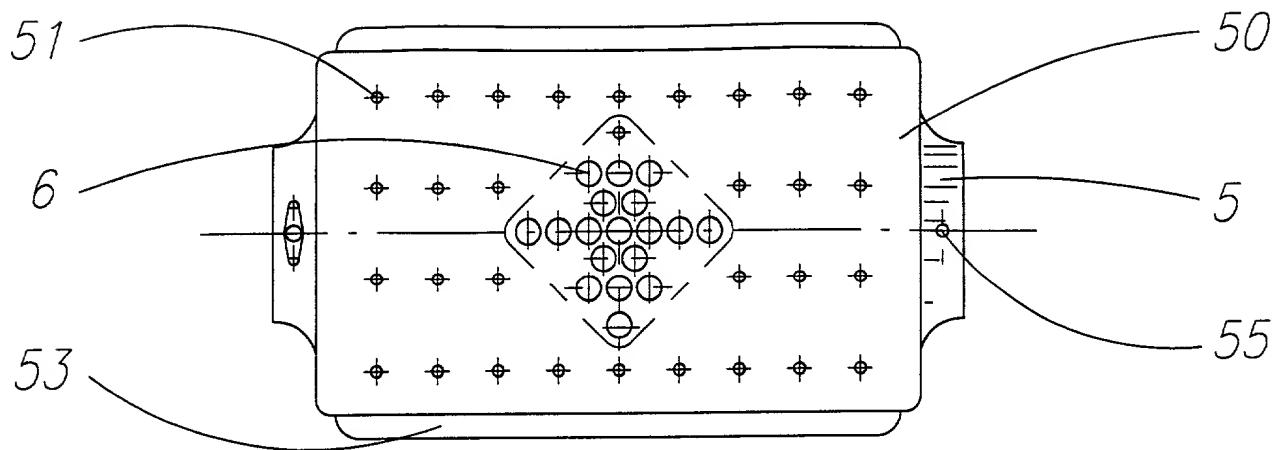


FIG. 17A

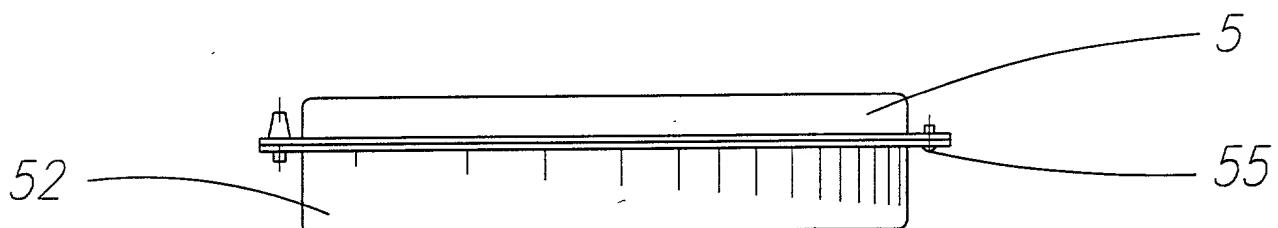


FIG. 17B

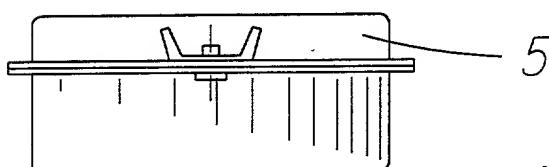


FIG. 17D

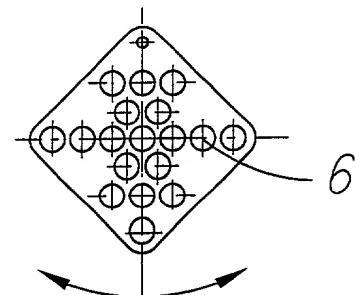


FIG. 17C

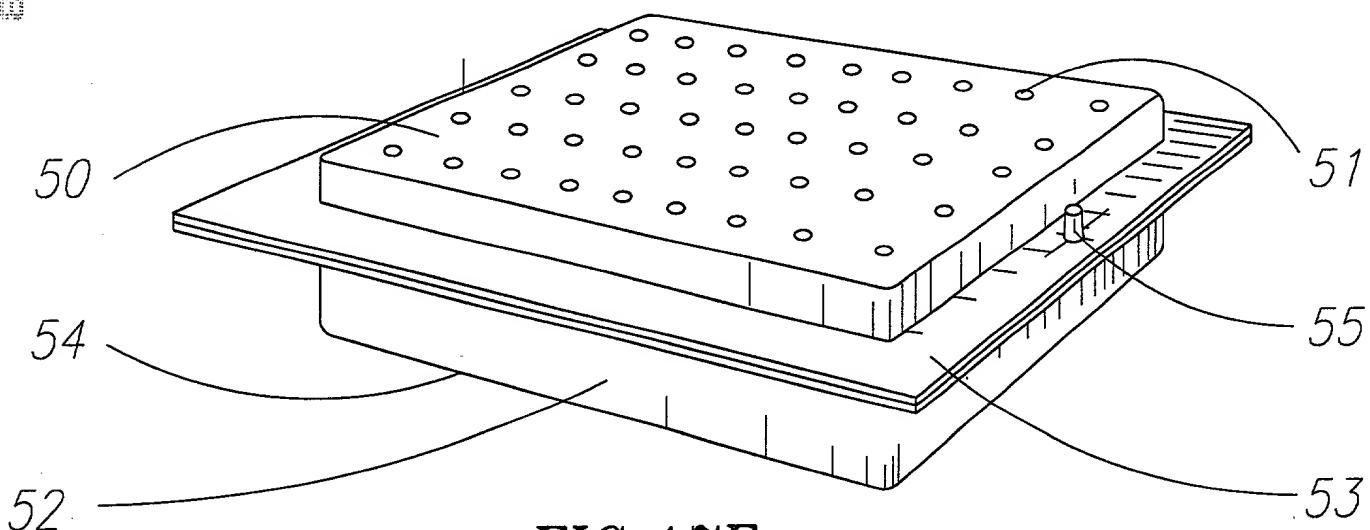


FIG. 17E

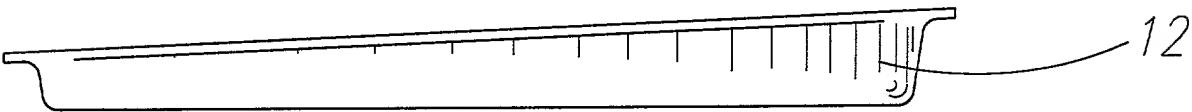
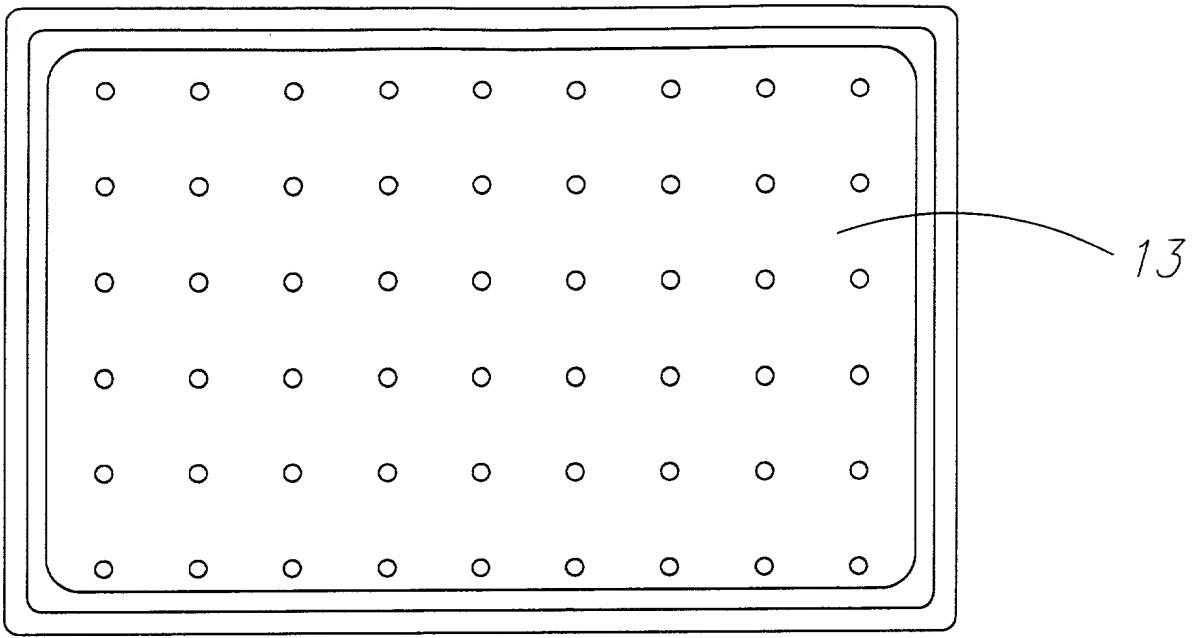


FIG. 18B

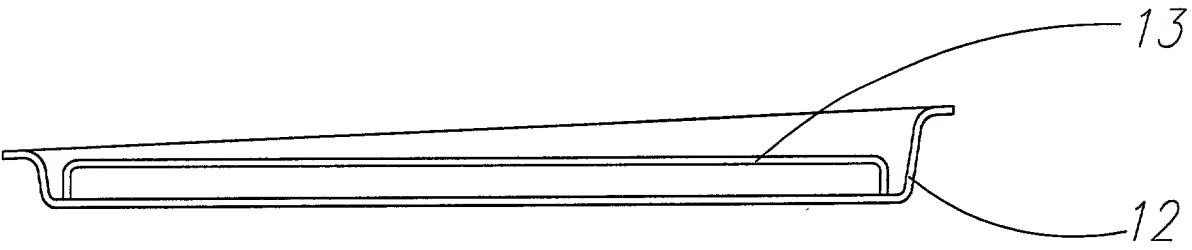
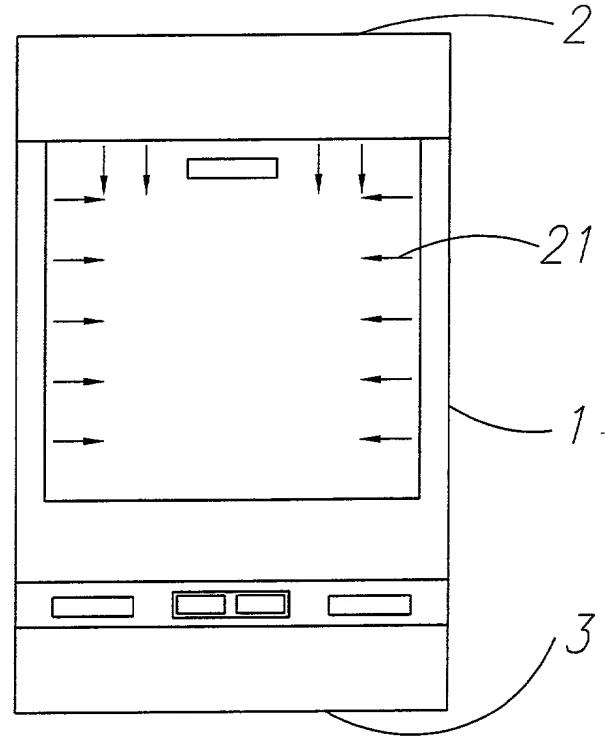
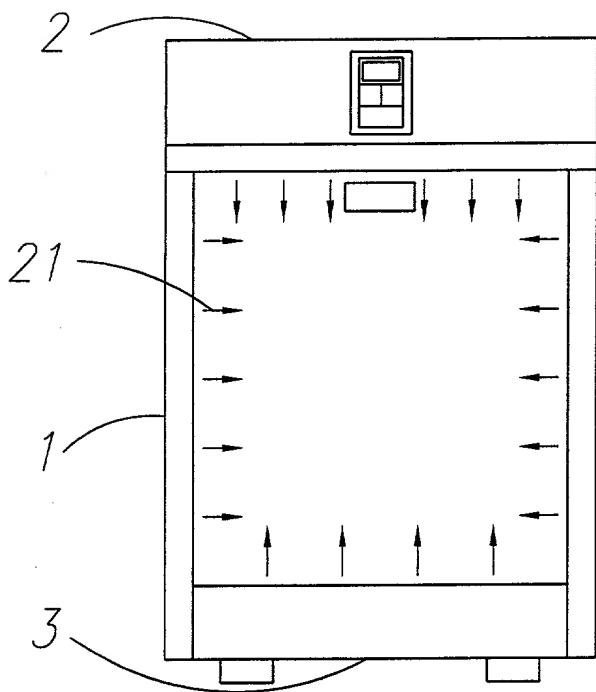
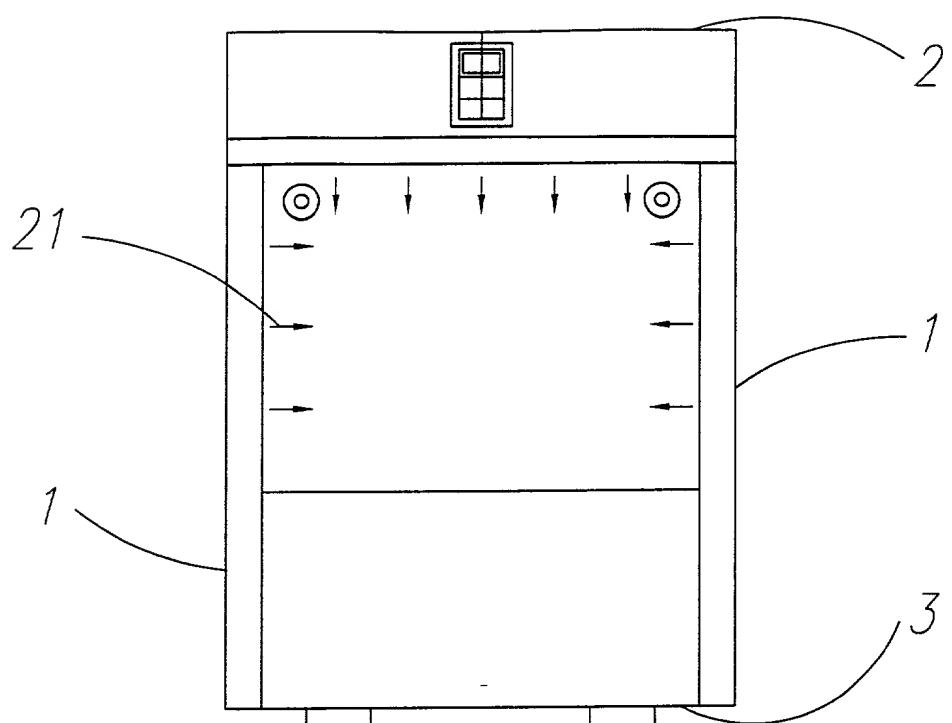


FIG. 18C



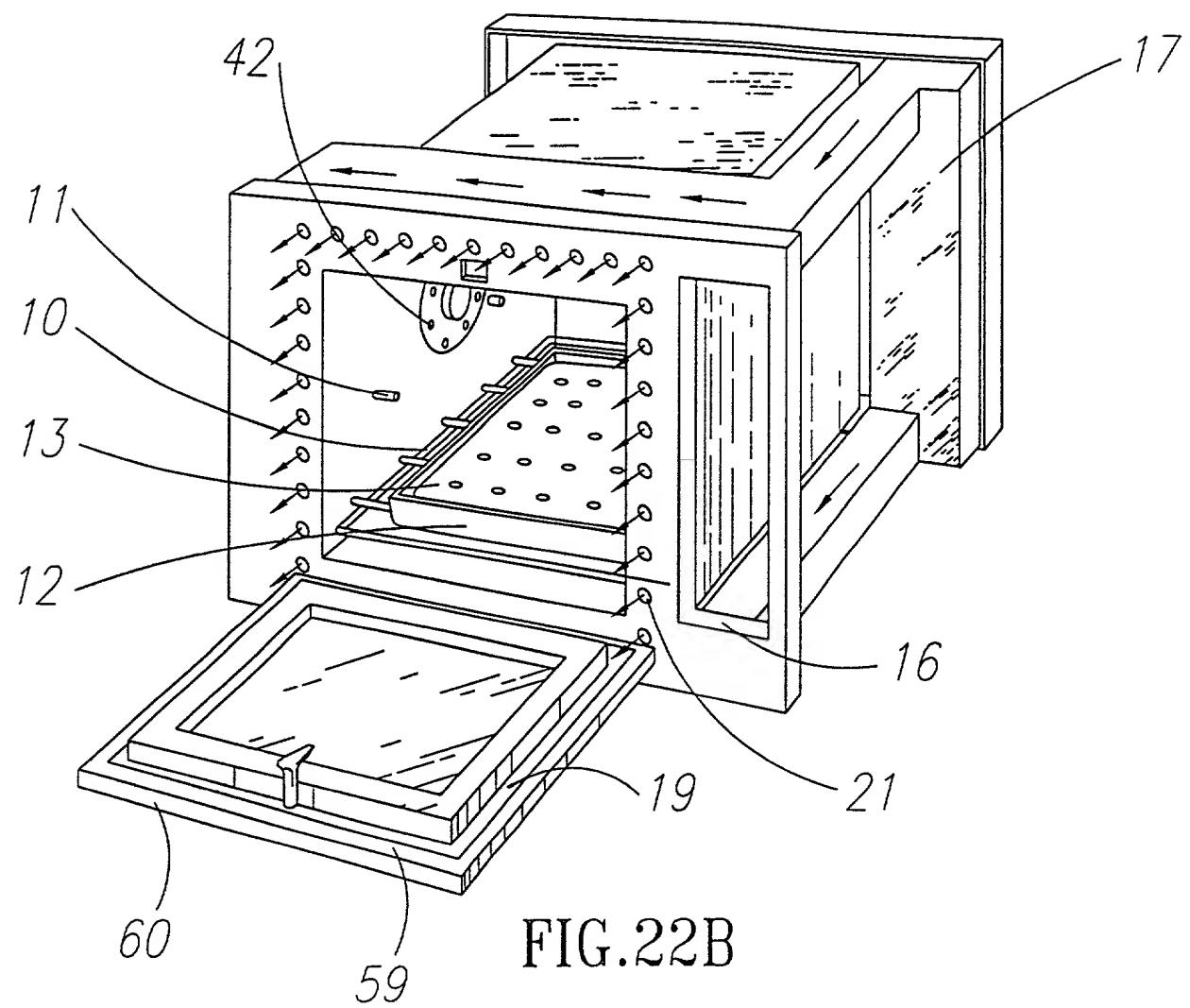


FIG. 22B

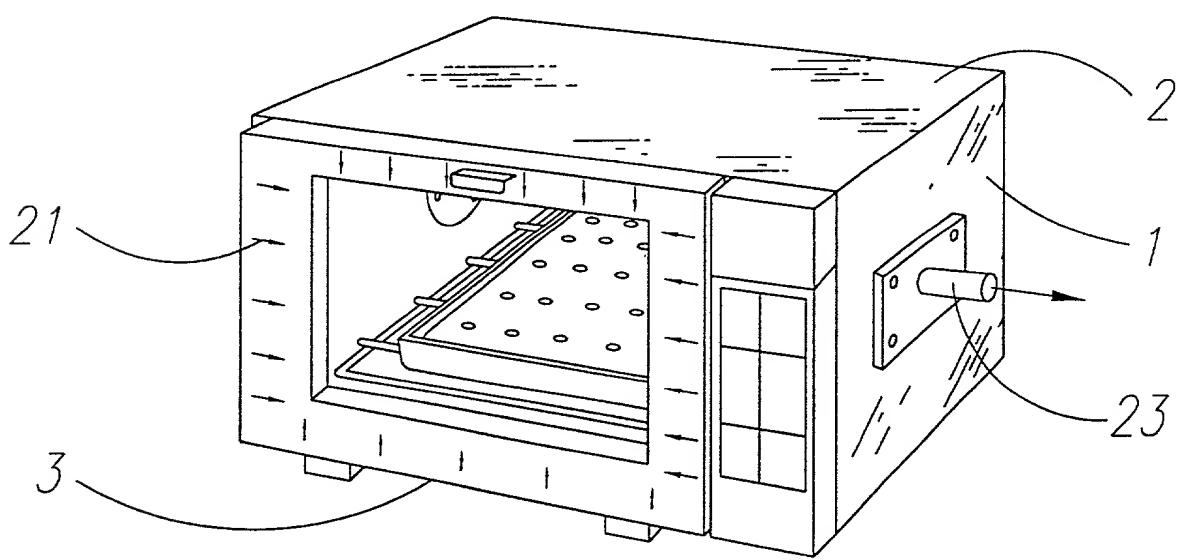


FIG. 22A

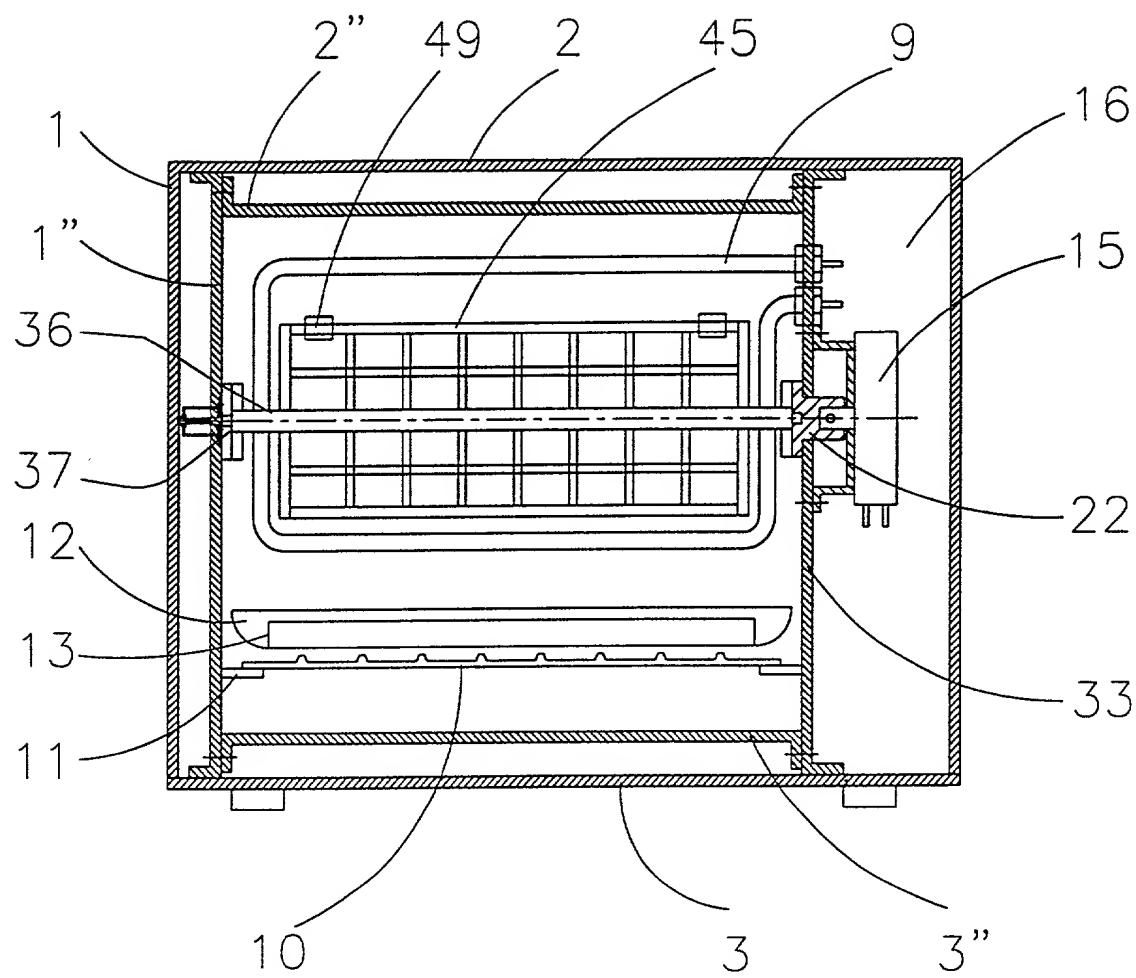


FIG.23

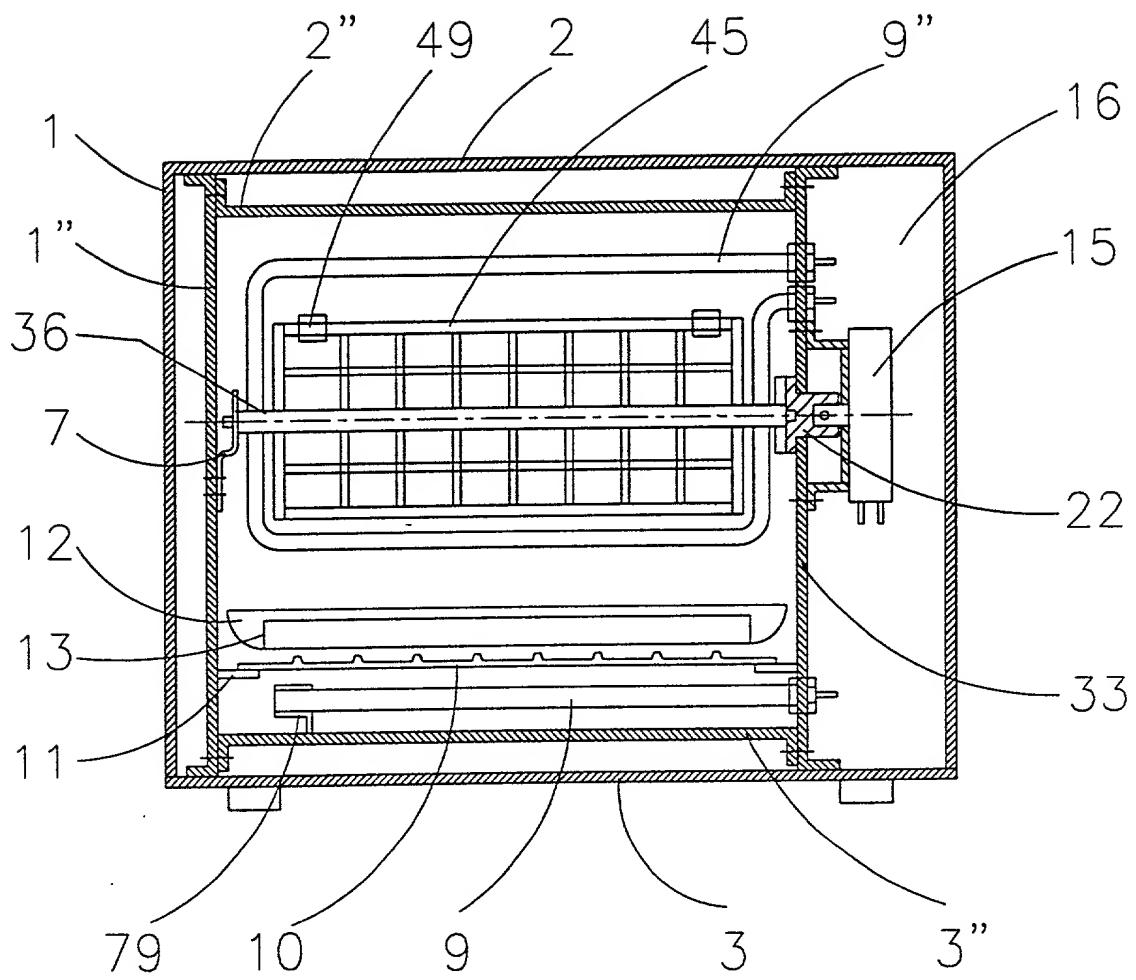


FIG.24